



CLK4 Polyclonal Antibody

Catalog No	YP-Ab-14711
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	CLK4
Immunogen	The antiserum was produced against synthesized peptide derived from human CLK4. AA range:101-150
Specificity	CLK4 Polyclonal Antibody detects endogenous levels of CLK4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CDC like kinase 4;CLK 4;CLK4;Dual specificity protein kinase CLK4;CDC-like kinase 4
Observed Band	65kD
Calculated Molecular Weight	65kD
Cell Pathway	Nucleus .
Tissue Specificity	Expressed in liver, kidney, heart, muscle, brain and endothelial cells.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., function:Phosphorylates serine- and arginine-rich (SR) proteins of the spliceosomal complex may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing. Phosphorylates serines, threonines and tyrosines. Required for the regulation of alternative splicing of MAPT/TAU.,PTM:Autophosphorylates on all three types of residues., similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. Lammer subfamily.,similarity:Contains 1 protein kinase domain., subunit:Interacts with UBL5.,tissue specificity:Expressed in liver, kidney, heart, muscle and brain.,



Background

CDC like kinase 4(CLK4) Homo sapiens The protein encoded by this gene belongs to the CDC2-like protein kinase (CLK) family. This protein kinase can interact with and phosphorylate the serine- and arginine-rich (SR) proteins, which are known to play an important role in the formation of spliceosomes, and thus may be involved in the regulation of alternative splicing. Studies in the Israeli sand rat *Psammomys obesus* suggested that the ubiquitin-like 5 (UBL5/BEACON), a highly conserved ubiquitin-like protein, may interact with and regulate the activity of this kinase. Multiple alternatively spliced transcript variants have been observed, but the full-length natures of which have not yet been determined. [provided by RefSeq, Jul 2008],

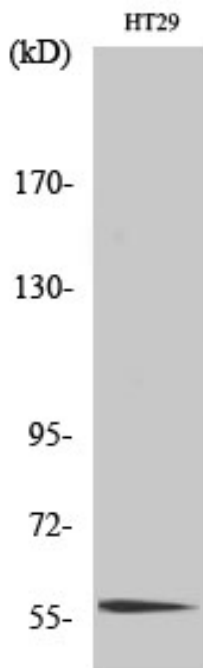
matters needing attention

Avoid repeated freezing and thawing!

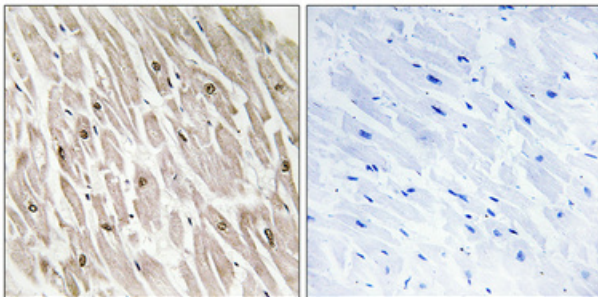
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

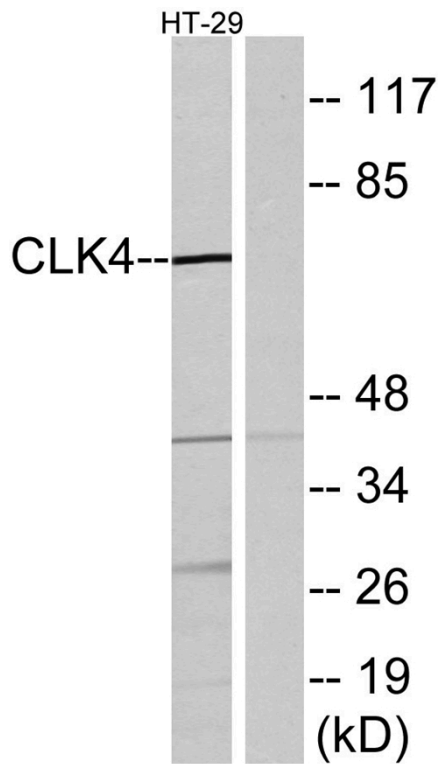
Products Images



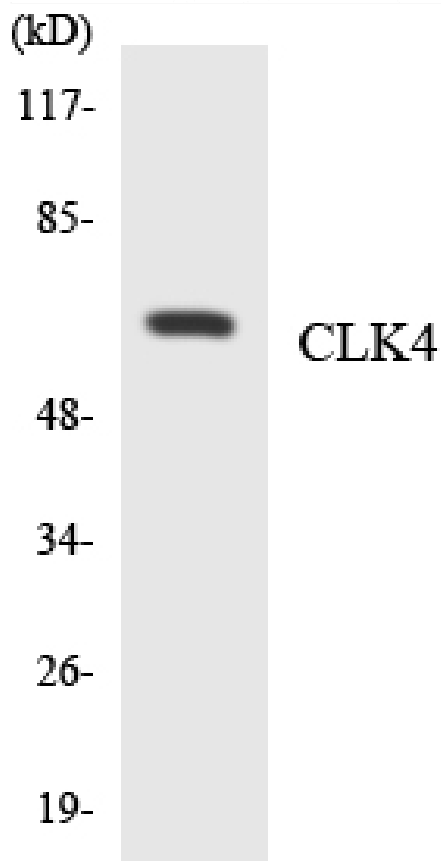
Western Blot analysis of various cells using CLK4 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Immunohistochemical analysis of paraffin-embedded Human heart. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from HT-29 cells, using CLK4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using CLK4 antibody.